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	APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/716,419		11/20/2003		Kouichi Takagi	117815	6550	
	25944 7590 05/22/2006			EXAMINER CAVALLARI, DANIEL J			
	OLIFF & BERRIDGE, PLC						
	P.O. BOX 19	928					
	ALEXANDRIA, VA 22320				ART UNIT	PAPER NUMBER	
·					2836	•	

DATE MAILED: 05/22/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	U					
	10/716,419	TAKAGI ET AL.						
Office Action Summary	Examiner	Art Unit						
	Daniel J. Cavallari	2836						
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).								
Status								
1)⊠ Responsive to communication(s) filed on <u>09 Ar</u>	oril 2004.							
	action is non-final.							
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims								
4) Claim(s) 1-6 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1-6 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement.								
Application Papers								
9) The specification is objected to by the Examine	г.							
10)⊠ The drawing(s) filed on <u>29 April 2004</u> is/are: a) accepted or b)⊠ objected to by the Examiner.								
Applicant may not request that any objection to the	• • • • • • • • • • • • • • • • • • • •	· •						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority under 35 U.S.C. § 119								
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
La company								
Attachment(s) 1) Notice of References Cited (PTO-892)	4) Interview Summary	(PTO 413)						
2) Notice of Praftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	ate						
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Informal P 6) Other:	atent Application (PTO-152)						

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DETAILED ACTION

Drawings

The drawings are objected to for the following reasons:

Those Figures representative of prior art (i.e. Figure 17) should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). Corrected drawings in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-4, & 6 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In regard to Claim 1

Claim 1 contains numerous grammatical errors, such as "wherein the installation socket is further configured to be installed a different relay element..." The applicant should check the claim for these and other grammatical errors.

In regard to Claim 2

Claim 1 contains numerous grammatical errors, such as "...further configured to be installed a different relay..." The applicant should check the claim for these and other grammatical errors.

In regard to Claim 3

Claim 3 contains numerous grammatical errors, such as ...wherein each of the relay elements to be installed in the installation socket is configured to have same outer shape and outer dimensions..." The applicant should check the claim for these and other grammatical errors.

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In regard to Claim 4

The limitation "...comprises a semiconductor relays" is confusing as "a semiconductor" implies a single switch were as "relays" is plural so it is unclear whether one or more than one relay is being referenced. The claim will be examined as best understood to mean "comprises a semiconductor relay".

In regard to Claim 6

Claim 6 contains the limitation of a "... semiconductor module having a case provided the installation socket..." This sentence is grammatically incorrect rendering the claim meaningless. It is unclear what "having a case provided the installation socket" is referencing or trying to claim.

Because of the 112 problems, no art can be applied to Claim 6.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-3 & 5 are rejected under 35 U.S.C. 102(b) as being anticipated by Nakamura (US 2004/0169993 A1).

In regard to Claim 1, 2, & 5

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Nakamura teaches:

 A plurality of terminals, read on by terminals connecting the switch unit to the battery (BATT) and alternator (ALT) via a wiring (31) (See Figures 1 & 3B and Paragraphs 37, 40, & 41).

- A plurality of installation sockets (39) configured to connect the relay element
 (22) (See Figure 1 & Paragraph 29) also shown as relay cavities (4) (See Figure
 12 & Paragraph 2).
- Wherein the installation socket is configured to have different relay elements
 installed as shown in Figure 1, in which the relays are changeable. Figure 4B
 further shows different relays designed and used for different components of the
 car (i.e. Horn, Headlamp (H/LP), and Fan).

In regard to Claim 3

 Each of the relay elements (22 & 23) having the same outer rectangular shape and outer dimensions, width and height in which to fit in the tracks (44) (See Figure 1).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Nakamura & Metlitzky et al. (US 2004/0080214 A1).

Nakamura teaches "the relay functions and the fuse functions by semi-conductor groups however it is unclear whether this encompasses a semiconductor relay. Figure 7 shows the use of a mechanical relay.

Metlitzky et al. (hereinafter referred to as Metlitzky) teaches a vehicle control unit incorporating a semiconductor relay (See Paragraph 3).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the semiconductor relay as taught by Metlitzky in place of the mechanical relay of Nakamura. The motivation would have been to reduce the size and weight of the device.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

- Yoshida et al. (US 2003/0075980 A1)
- Nakamura et al. (US 6,914,765)
- Yamane (US 2002/0054473)
- Yamane (US 2002/0141143 A1)
- Onizuka et al. (US 6,724,627)
- Vonguttenb et al. (DE 4005809A)

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Daniel J. Cavallari whose telephone number is (571)272-8541. The examiner can normally be reached on Monday-Friday 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Brian Sircus can be reached on (571)272-2800 x36. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Daniel Cavallari

May 12, 2006

SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2800